

ANNOTATED CHECKLIST OF TYPE SPECIMENS OF NEW ZEALAND PLANTS IN THE AUCKLAND INSTITUTE AND MUSEUM HERBARIUM

Part 3. Monocotyledones — Gramineae

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Abstract. An annotated checklist of 156 sheets of Herbarium specimens forming type material for 67 taxa of New Zealand native grasses is presented.

The native grass collection in the Herbarium of the Auckland Institute and Museum (AK) has been systematically searched for type specimens. All specimens with any claim to type status are listed below, together with their author and publication reference, and the type locality quoted directly from the original description. In citing specimens, labels and notes of the collector have been used where possible and the information contained therein standardised into the following form: locality, collector, date, AK number. Where the label is written in other than the hand of the collector, the specimen citation is preceded by an asterisk. In most cases this occurs when Cheeseman has relabelled specimens and discarded the original collector's label or notes. Where two or more sheets of a collection exist, the second and subsequent sheets' labels have usually been copied from the original by later herbarium workers. Metric equivalents of altitude ranges have been added in square brackets.

A prominent feature of the Cheeseman Herbarium grass collection which creates a number of difficulties with type material is the exchange of specimens and letters between T. F. Cheeseman and Professor E. Hackel in Bohemia. Cheeseman forwarded numbered duplicates of several hundred grass collections to Hackel who wrote back naming the specimens. These letters (held in the Auckland Institute and Museum Library), although never published, contain the descriptions (often in Latin) of a number of new species and varieties recognised by Hackel. Cheeseman later published many, but not all, of these taxa in his *Manual of the New Zealand Flora* (1906). Unfortunately, he rarely quoted type localities or type specimens, merely referring to the unpublished Hackel manuscripts. Thus it is presumed that the holotypes of these taxa are housed in the Hackel Herbarium in Vienna (W) and that the AK specimens are isotypes, or in some cases syntypes.

This paper is a continuation of the series begun by Goulding (1978 this volume).

Agropyron enysii Kirk, *Trans. Proc. N.Z. Inst.* 27: 325 (1895)

TYPE LOCALITIES. "South Island: Slopes of Mount Torlesse and Broken River; J. D. Enys! (1877): Bealey Gorge; T. Kirk: 2,500 ft to 4,000 ft [762-1219 m], Southern Alps; N. T. Carrington! (1881)."

Specimen. * Mount Torlesse, Canterbury Alps, J. D. Enys, no date, AK 2018.

Agropyron multiflorum Kirk var. **longisetum** Hack. ex Cheeseman. *Man. N.Z. Fl.*: 922 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen numbers 1506, 1507 sent by Cheeseman.

Specimen. Matamata, Thames Valley, T. F. Cheeseman, no date, AK 2017 (no. 1506 to Hackel).

Agrostis dyeri Petrie, *Trans. N.Z. Inst.* 22: 441 (1890)

TYPE LOCALITIES. "Ruahine Mountains (west of Makaretu Bush), 5,000 ft [1524 m]; Tararua Mountains (Buchanan)!; Mount Arnould (Upper Hawea), 3,000-4,000 ft [914-1219 m]."

Specimen. * Ruahine Mountains, 5,000 ft [1524 m], D. Petrie, no date, AK 1400.

Agrostis dyeri Petrie var. **aristata** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 864 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen number 1088 sent by Cheeseman.

Specimen. * Maniototo Plain, Otago, D. Petrie, no date, AK 1421 (no. 1088 to Hackel).

Agrostis dyeri Petrie var. **delicatior** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 864 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen number 1095 from Cheeseman.

Specimens. Upper Waimakariri, T. Kirk, no date, AK 1422 (2 sheets, no. 1095 to Hackel).

Agrostis muelleri Benth. var. **paludosa** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 864 (1906)

TYPE LOCALITIES. "Swamps by the Broken River, Kirk! Tasman Valley, T. F. Cheeseman."

Specimens. * Mountain bogs, Broken River, Canterbury, T. Kirk, no date, AK 1396 (no. 1111 to Hackel). Swamps in the Tasman Valley, alt. 2,000 ft, [610 m], T. F. Cheeseman, January 1897, AK 1395 (no. 1110 to Hackel).

Agrostis petriei Hack. var. **mutica** Hack., *Trans. N.Z. Inst.* 35: 379 (1902)

TYPE LOCALITY. "Cromwell, Central Otago, Petrie (10045 hb. Petrie, 1085 hb. Cheesem.)."

Specimens. * Cromwell, Central Otago, 900 ft [275 m], D. Petrie, no date, AK 1425 (2 sheets).

Agrostis striata Col., *Trans. N.Z. Inst.* 21: 107 (1889)

TYPE LOCALITY. "High lands in the interior near Lake Waikare, County of Wairoa; 1888: Mr H. Hill."

Specimen. * Lake Waikaremoana, H. Hill, no date, AK 1450 (ex Herb. Colenso).

Agrostis tenella Petrie, *Trans. N.Z. Inst.* 22: 442 (1890)

TYPE LOCALITY. "Macrae's, Waihemo County (Otago); 1,800 ft [548 m]."

Specimen. Macrae's, Waihemo County, 1,800 ft [548 m], D. Petrie, no date, AK 1434.

Apera purpurascens Col., *Trans. N.Z. Inst.* 21: 106 (1889)

TYPE LOCALITY. "Edges of streamlets in woods south of Dannevirke, County of Wai-pawa, flowering in February; 1887-88; W. C."

Specimens. * Near Dannevirke, Hawkes Bay, W. Colenso, no date, AK 1353 (3 sheets, the first annotated "Type of *Apera purpurascens* Colenso" by Cheeseman).

Arundo fulvida Buch., *Trans. N.Z. Inst.* 6: 242 (1874)

TYPE LOCALITY. "Collected by Dr Menzies on the Mataura River, Otago, in 1867; and by J. Buchanan at Wellington Heads, in 1873."

Specimen. *Wellington, J. Buchanan, no date, AK 1708 (note attached in Buchanan's hand stating name but no details of locality, date, etc.).

Asperella aristata Petrie, *Trans. N.Z. Inst.* 26: 272 (1894)

TYPE LOCALITIES. "Sources of the Broken River (4,000 ft) [1219 m], and the valleys of Mount Torlesse (3,500 ft) [1067 m], Alps of North Canterbury."

Specimens. Black Range, Canterbury Alps, 4,500 ft [1372 m], D. Petrie 1514, January 1893, AK 2021. * Broken River, Canterbury Alps, 3,500 ft [1067 m], D. Petrie, no date, AK 2020.

Asperella laevis Petrie, *Trans. N.Z. Inst.* 27: 406 (1895)

TYPE LOCALITIES. "Catlin's River district, near the seaside, and Matukituki Valley (Lower Wanaka) 1,100 ft [335 m]."

Specimens. * Matukituki Valley, Otago, D. Petrie, no date, AK 2038 (3 sheets).

Atropis antipoda Petrie, *Subantarctic Is. N.Z.:* 480 (1909)

TYPE LOCALITY. "Antipodes Island; B. C. Aston!"

Specimen. * Antipodes Island, B. C. Aston, 12 January 1909, AK 1973.

Atropis chathamica Cheeseman, *Man. N.Z. Fl.* 2nd Ed.: 203 (1925)

TYPE LOCALITY. "Chatham Islands: exact locality not stated, F. A. D. Cox!"

Specimens. * Chatham Islands, F. A. D. Cox, no date, AK 1978 (2 sheets).

Atropis pumila Kirk, *Trans. N.Z. Inst.* 14: 379 (1882)

TYPE LOCALITY. "South Island, common in Otago from 2,000 to 3,000 ft [610-914 m], D. Petrie."

Specimens. * Interior of Otago, D. Petrie, no date, AK 1715. Macrae's, and Upper Shag Valley, 1,200 ft [366 m], D. Petrie, no date, AK 1716. * Upper Waipori, Otago, 2,000 ft [610 m], D. Petrie, no date, AK 1717.

Atropis stricta (Hook. f.) Hack. ex Cheeseman var. **suborbicularis** Hack. ex Cheeseman, *Man. N.Z. Fl.:* 914 (1906)

TYPE LOCALITY. "Near Oamaru, Petrie!"

Specimen. * Near Oamaru, Otago, D. Petrie, no date, AK 1972.

Calamagrostis petrici Hack., *Trans. N.Z. Inst.* 35: 380 (1903)

TYPE LOCALITY. "Swampy Hill, Dunedin, Otago, leg. Petrie (10092 hb. Petrie, 1190 hb. Cheeseman)."

Specimen. * Dunedin, D. Petrie, no date, AK 1508 (no. 1190 to Hackel).

Catabrosa antarctica Hook. f., *Fl. Nov. Zel.* i: 308 (1853)

TYPE LOCALITY. "Northern Island: summit of the Ruahine Range, Colenso."

Specimen. * Ruahine Range, W. Colenso no. 1553, no date, AK 1546.

Danthonia planifolia Petrie, *Trans. N.Z. Inst.* 33: 328 (1901)

TYPE LOCALITY. "Scrubby slopes leading up to the Clinton Saddle, between Lake Te Anau and Milford Sound, on the eastern side of the saddle (2,500 ft) [762 m]."

Specimens. * Clinton Saddle, Lake Te Anau, D. Petrie, no date, AK 1650 (2 sheets).

Danthonia pungens Cheeseman, *Man. N.Z. Fl.*: 887 (1906)

TYPE LOCALITY. "Stewart Island, Smith's Lookout, altitude 1,000 ft [305 m], T. Kirk!"
Specimen. * Smith's Lookout, Stewart Island, T. Kirk, January 1887, AK 1640.

Danthonia raoulii Steud. var. **cheesemanii** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 886 (1906)

TYPE LOCALITY. "Open forests near the source of the Takaka River, Nelson, altitude 3,000 ft [914 m], T. F. Cheeseman."

Specimens. Forests at the source of the Takaka River, Nelson, alt. 3,000 ft [914 m]. T. F. Cheeseman, January 1881, AK 1633 (no. 1250 to Hackel); AK 1634 (2 sheets).

Danthonia thomsoni Buch., *N.Z. Grasses*: t36 (2) (1880)

TYPE LOCALITY. "South Island, Mount St Bathans, Otago, 1-2,000 ft [305-610 m], discovered by D. Petrie."

Specimen. * Mount St Bathans, Otago, 3,000 ft [914 m], no collector, no date, AK 1720. Two later labels have been added by Cheeseman. The first adds D. Petrie as the collector, the second alters the collector to J. Buchanan.

Deschampsia chapmani Petrie, *Trans. N.Z. Inst.* 23: 401 (1891)

TYPE LOCALITY. "Auckland Islands, coll. F. R. Chapman."

Specimen. * Auckland Islands, F. B. Chapman, January, 1890, AK 1540.

Deschampsia gracillima Kirk, *Journ. Bot.* 24: 237 (1891)

TYPE LOCALITY. "Carnley Harbour, Auckland Islands, 1,000 ft [305 m], T. Kirk."

Specimens. Carnley Harbour, Auckland Island, Kirk, no date, AK 1553 (2 sheets).
 * Auckland Islands, Kirk, January 1890, AK 1552.

Deschampsia pusilla Petrie, *Trans. N.Z. Inst.* 23: 403 (1891)

TYPE LOCALITY. "Hector Mountains 6,000 ft [1829 m]."

Specimens. Hector Mountains, 6,000 ft [1829 m], D. Petrie, February 1890, AK 1534 (2 sheets).

Deschampsia tenella Petrie, *Trans. N.Z. Inst.* 23: 402 (1891)

TYPE LOCALITY. "Catlin's River District, in moist rather open spots in woods up to 400 ft [122 m]."

Specimens. * Catlin's River, Otago, D. Petrie, no date, AK 1549 (2 sheets). Catlin's River, D. Petrie, January 1892, AK 1550.

Deyeuxia avenoides (Hook. f.) Buch. var. **brachyantha** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 871 (1906)

TYPE LOCALITY. "Common throughout, ranging from sealevel to 3,500 ft [1067 m]". Variety named by Hackel from specimen numbers 1171-1189 (except 1177) sent by Cheeseman.

Specimens. Raglan Range, Wairau Valley, 3,000 ft [914 m], T. F. Cheeseman, January 1881, AK 1500 (no. 1186 to Hackel). Te Aroha, T. F. Cheeseman, January 1884, AK 1501 (no. 1188 to Hackel). Tokoroa Plains, Upper Waikato, T. F. Cheeseman, January 1884, AK 1502 (4 sheets — no. 1187 to Hackel). Clarence Valley, 2,000 ft [610 m], T. F. Cheeseman, January 1893, AK 1504 (no. 1185 to Hackel).

Deyeuxia billardieri Kunth var. **tenuis** Petrie ex Cheeseman, *Man. N.Z. Fl.*: 869 (1906)

TYPE LOCALITY. "Catlin's River, Otago, H. J. Matthews."

Specimen. * Catlin's River, Otago, H. J. Matthews, no date, AK 1481.

Deyeuxia forsteri Kunth var. **humilior** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 868 (1906)

TYPE LOCALITY. "North and South Islands; probably not uncommon in mountain districts, Lake Waikaremoana, Hill! Clarence Valley, Lake Tennyson, Broken River, Tasman Valley, etc. T. F. Cheeseman; Lake Te Anau, Petrie!"

Specimens. Clarence Valley, T. F. Cheeseman, January 1893, AK 1451. Lake Tennyson, alt. 3,000 ft [914 m], T. F. Cheeseman, January 1893, AK 1453 (2 sheets). Mountains above the Broken River, Canterbury, alt. 3,500 ft [1067 m], T. F. Cheeseman, no date, AK 1452. Swamps of the Tasman Valley, T. F. Cheeseman, January 1898, AK 1454. * Lake Te Anau, Otago, D. Petrie, February 1891, AK 1457.

Deyeuxia forsteri Kunth var. **littoralis** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 869 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen numbers 1135-1137 sent by Cheeseman.

Specimens. * Kermadec Islands, R. H. Shakespear, no date, AK 1461 (no. 1135 to Hackel). Coast north of Manukau Harbour, T. F. Cheeseman, December 1880, AK 1458 (no. 1137 to Hackel).

Deyeuxia forsteri Kunth var. **micrathera** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 868 (1906)

TYPE LOCALITY. "Antipodes Island, Campbell Island: Kirk!"

Specimens. Antipodes Island, T. Kirk, 17 January 1890, AK 1471. Campbell Island, T. Kirk, no date, AK 1472.

Deyeuxia forsteri Kunth var. **semiglabra** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 868 (1906)

TYPE LOCALITY. "North and South Islands: Not uncommon." Variety named by Hackel from specimen number 1131 sent by Cheeseman.

Specimen. Broken River, Canterbury Alps, 2,000 ft [610 m], T. F. Cheeseman, no date, AK 1449 (no. 1131 to Hackel).

Dichelachne crinita (Linn. f.) Hook. f. var. **intermedia** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 873 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen numbers 1063 to 1065 sent by Cheeseman.

Specimen. * Bay of Islands, D. Petrie, November 1895, AK 1522 (no. 1063 to Hackel).

Dichelachne sciurea Hook. f. var. **inaequiglumis** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 874 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen number 1068 sent by Cheeseman.

Specimen. * Western Park, Auckland, D. Petrie, no date, AK 1527 (2 sheets — no. 1068 to Hackel).

Festuca coxii Hack. ex Cheeseman, *Man. N.Z. Fl.*: 919 (1906)

TYPE LOCALITY. "Chatham Islands: Common on rocks and sands near the shore, Cox and Cockayne!"

Specimen. On rocks near the sea, Chatham Island, L. Cockayne and F. A. D. Cox No. 4024, January 1901, AK 2009.

Festuca foliosa Hook. f., *Fl. Antarctica* i: 99 (1844)

TYPE LOCALITY. "Lord Auckland's Group and Campbell's Island; on banks and in rocky places, chiefly near the sea, very abundant."

Specimen. * Auckland Islands, J. D. Hooker, no date, AK 1752 (ex Herb. Colenso).

Festuca multinodis Petrie et Hack., *Trans. N.Z. Inst.* 44: 186 (1912)

TYPE LOCALITIES. "Coastal cliffs and rocky slopes at Port Nicholson, and the shores of Cook Strait. Coll. B. C. Aston."

Specimens. * Island Bay, Wellington (on littoral rocks), B. C. Aston no. 14, no date, AK 2004 (2 sheets).

Festuca ovina L. subsp. **matthewsii** Hack., *Trans. Proc. N.Z. Inst.* 35: 385 (1903)

TYPE LOCALITY. "Mount Bonpland, Otago, leg. H. J. Matthews (hb. Cheesem. 1496)."

Specimens. * Mount Bonpland, Otago, H. J. Matthews, no date, AK 1990 (2 sheets — no. 1496 to Hackel).

Festuca ovina subsp. **novae-zelandiae** Hack., *Trans. N.Z. Inst.* 35: 384 (1903)

TYPE LOCALITY. "Canterbury Alps, in declivibus montis Torlesse, altit. 1000 m, leg. Cheeseman (Nro. 1497)."

Specimens. Slopes of Mount Torlesse, Canterbury, 3,000 ft [914 m], T. F. Cheeseman, January 1880, AK 1987 (2 sheets — no. 1497 to Hackel).

Hierochloe fraseri Hook. f. var. **recurvata** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 855 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen number 1039 sent by Cheeseman.

Specimen: * Ruahine Mountains, D. Petrie, no date, AK 1330 (no. 1039 to Hackel).

Imperata cheesemanii Hack., *Trans. N.Z. Inst.* 35: 378 (1903)

TYPE LOCALITY. "Kermadec Islands, leg. Cheeseman (Nro 1001)."

Specimens. Kermadec Islands, T. F. Cheeseman, August 1887, AK 1264 (no. 1001 to Hackel). * Kermadec Islands, Miss Shakespear, November 1900, AK 1265 (no. 1001 to Hackel.)

Microlaena carsei Cheeseman, *Trans. N.Z. Inst.* 47: 47 (1915)

TYPE LOCALITY. "North Island: Mangonui County, damp shaded places in the forest near Kaiaka, H. Carse!"

Specimens. Otukai, near Kaiaka, Mangonui County, H. Carse, May 1913, AK 1308 (2 sheets).

Microlaena ramosissima Col., *Trans. N.Z. Inst.* 21: 105 (1899)

TYPE LOCALITY. "In a thicket on the banks of a small streamlet south of Dannevirke, County of Waipawa (and only in that locality); 1887-88: W. C."

Specimens. * Near Dannevirke, Hawkes Bay, W. Colenso, no date, AK 1313 (2 sheets).

Poa anceps Forst. f. var. **condensata** Cheeseman, *Man. N.Z. Fl.*: 904 (1906)

TYPE LOCALITY. "Not uncommon as far as Canterbury."

Specimens. * White Island, Bay of Plenty, W. R. B. Oliver, no date, AK 1810 (3 sheets). * Growing at foot of limestone cliffs near breakwater at Napier, B. C. Aston, no date, AK 1811. Seacliffs between Waimarama and Mataroa (Cape Kidnapper). H. Tryon, no date, AK 1812. * Near Cape Kidnappers, Hawkes Bay, H. Hamilton, no date, AK 1813. * Precise locality not given, W. Colenso 3809, no date, AK 1814. * Canterbury Plains, J. B. Armstrong, no date, AK 1815.

Poa anceps Forst. f. var. **gracilis** Cheeseman, *Man. N.Z. Fl.*: 904 (1906)

TYPE LOCALITY. "To Foveaux Strait."

Specimens. * Great Barrier Island, T. Kirk, no date, AK 1816 (2 sheets). Oxford. Thames Valley, T. F. Cheeseman, no date, AK 1817 (2 sheets). Oxford, Upper

Thames, T. F. Cheeseman, no date, AK 1818 (3 sheets). Patatere Plateau, T. F. Cheeseman, January 1884, AK 1819 (5 sheets). Hawera, Taranaki, T. F. Cheeseman, January 1885, AK 1820 (4 sheets).

Poa aucklandica Petrie, *Subantarctic Is. N.Z.* ii: 478 (1909)

TYPE LOCALITIES. "Auckland Islands, on hills above Carnley Harbour; B. C. Aston! Campbell Island? R. M. Laing (not in flower)!"

Specimen. * Carnley Harbour, Auckland Island, B. C. Aston, no date, AK 1845.

Poa breviglumis Hook. f., *Fl. Antarctica* i: 101 (1844)

TYPE LOCALITY. "Campbell's Island; open grassy places near the sea, not uncommon."

Specimen. * Moist banks near the sea; not uncommon, Campbell's Island, J. D. Hooker, December 1840, AK 1956.

Poa caespitosa Spreng. var. **leioclada** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 908 (1906)

TYPE LOCALITIES. "Mount Egmont, Petrie! near Westport, Townson!"

Specimens. * Mount Egmont, 4,000 ft [1219 m], D. Petrie, no date, AK 1870. * Cape Foulwind, near Westport, W. Townson no. 29B, no date, AK 1872 (2 sheets). * Near Westport, W. Townson no. 712, no date, AK 1873 (2 sheets).

Poa caespitosa Spreng. var. **planifolia** Petrie, *Trans. N.Z. Inst.* 47: 58 (1915)

TYPE LOCALITY. "Antipodes Island; H. J. Matthews."

Specimens. * Grown in Mr H. J. Matthews' Garden at Dunedin from a plant obtained from Antipodes Island, AK 1877. * Grown from a specimen brought from, H. J. Matthews, no date, AK 1876.

Poa chathamica Petrie, *Trans. N.Z. Inst.* 34: 394 (1902)

TYPE LOCALITY. "*Sphagnum* bogs at the Chatham Islands, where it was collected by Messrs L. Cockayne and F. A. D. Cox in January, 1900."

Specimens. * *Sphagnum* swamp, Chatham Islands, L. Cockayne, no date, AK 1858 (2 sheets). * Chatham Islands, Cox and Cockayne, no date, AK 1859.

Poa cheesemanii Hack., *Trans. N.Z. Inst.* 35: 383 (1903)

TYPE LOCALITY. "Nelson Alps, Lake Tennyson, Altit. 1000 m, leg. Cheeseman (Nro. 1316)."

Specimens. Lake Tennyson, alt. 3,000 ft [914 m], T. F. Cheeseman, January 1893, AK 1855 (3 sheets — no. 1416 to Hackel). Hackel has quoted the specimen number incorrectly in his publication (No. 1316 was *Arundo conspicua* Forst.).

Poa cockayniana Petrie, *Trans. N.Z. Inst.* 45: 274 (1913)

TYPE LOCALITY. "Banks of Rolleston River, Westland, L. Cockayne."

Specimen. * Rolleston River, Southern Alps, Dr Cockayne, no date, AK 1857.

Poa guthrie-smithiana Petrie, *Trans. N.Z. Inst.* 45: 275 (1913)

TYPE LOCALITY. "Herekopere Island, off Stewart Island."

Specimen. * Herekopere Island, H. Guthrie-Smith, no date, AK 1794.

Poa kirkii Buch. var. **collinsii** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 910 (1906)

TYPE LOCALITIES. "Mount Fyffe (Marlborough), Kirk! Hooker Valley, T. F. Cheeseman. 2,000-5,000 ft [610-1524 m]."

Specimens. * Mount Fyffe, Marlborough, T. Kirk, no date, AK 1919 (2 sheets). Hooker Valley, Mount Cook District, 2,500 ft [762 m], T. F. Cheeseman, no date, AK 1920 (2 sheets).

Poa maniototo Petrie, *Trans. N.Z. Inst.* 22: 443 (1890)

TYPE LOCALITY. "Maniototo Plain, Upper Clutha Basin, Mounts Pisa and Cardrona; altitudinal range 1,000 ft-4,000 ft [305-1219 m]."

Specimen. Maniototo Plain, Upper Clutha, Otago, 1,000-3,000 ft [305-914 m], D. Petrie, no date, AK 1940.

Poa novae-zelandiae Hack., *Trans. N.Z. Inst.* 35: 381 (1903)

TYPE LOCALITIES. "Canterbury Alps ad Arthur's Pass, altit. 1000 m (Cheesem. nr. 1338, 1339) et Hooker Glacier (Cheesem. 1341), Nelson mountains ad Mount Arthur Plateau (Cheesem. 1340), Humboldt mountains (Cockayne, 1347 in hb. Cheesem.)."

Specimens. Arthur's Pass, Canterbury Alps, 3,000 ft [914 m], T. F. Cheeseman, no date, AK 1768 (2 sheets — no. 1338 to Hackel); AK 1769 (3 sheets — no. 1339 to Hackel). Mount Arthur Plateau, Nelson, alt. 4,000 ft [1219 m], T. F. Cheeseman, January 1886, AK 1773 (no. 1340 to Hackel). Hooker Glacier, Canterbury Alps, 3,500 ft [1067 m], T. F. Cheeseman, no date, AK 1765 (2 sheets — no. 1341 to Hackel).

Poa novae-zelandiae Hack. forma **humilior** Hack., *Trans. N.Z. Inst.* 35: 382 (1903)

TYPE LOCALITIES. "Mount Hikurangi, East Cape, alt. 1500 m (Petrie 10198, hb. Cheesem. 1345); Otira Glacier, Westland, alt. 1160 m (Cockayne 6557, in hb. Cheesem. 1348); Raglan Range, Wairau Valley, Nelson Alps, 1500 m (Cheesem. 1342)."

Specimens. Raglan Range, Wairau Valley, Nelson alt. 5,500 ft [1676 m], T. F. Cheeseman, no date, AK 1776 (2 sheets — no. 1342 to Hackel).

Poa oraria Petrie, *Trans. N.Z. Inst.* 42: 196 (1910)

TYPE LOCALITY. "Moist and wet stations at the head of several of the sounds of western Otago (Deep Cove etc.). Collected by Mr B. C. Aston in mid-January, 1909."

Specimen. * Deep Cove, S.W. Otago, B. C. Aston, January 1909, AK 1788 (2 sheets).

Poa polyphylla Hack., *Trans. N.Z. Inst.* 35: 383 (1903)

TYPE LOCALITY. "Kermadec Islands, leg. Shakspear (in herb. Cheesem. 1444-46)."

Specimen. * Kermadec Islands, R. H. Shakespear, no date, AK 1830 (no. 1446 to Hackel).

Poa polyphylla Hack. forma **compacta** Hack., *Trans. N.Z. Inst.* 35: 383 (1903)

TYPE LOCALITY. "Kermadec Island, leg. Shakspear (in hb. Cheesem. 1445)."

Specimen. * Kermadec Islands, N.E. from New Zealand, R. H. Shakespear, no date, AK 10808 (no. 1445 to Hackel).

Poa ramosissima Hook. f., *Fl. Antarctica* i: 101 (1844)

TYPE LOCALITIES. "Lord Auckland's Group; very common on rocks overhanging the sea, trailing over banks etc. β . Campbell's Island; plentiful on the faces of hills sloping to the south; rare in Lord Auckland's Group."

Specimen. * Campbell Island, Sir J. D. Hooker (ex Kew Herbarium), no date, AK 1793.

Simplicia laxa T. Kirk, *Trans. N.Z. Inst.* 29: 497 (1897)

TYPE LOCALITIES. "North Island — Dry River Station, Ruamahanga, Lower Wairarapa: January, 1880: T. K. South Island — Waikouaiti and Deep Stream, Otago: D. Petrie!" Lectotype chosen by Zotov, *N.Z. J. Bot.* 9 (3): 541 (1971) — "Waikouaiti, Otago, D. Petrie."

Specimens. * Waikouaiti, Otago, D. Petrie, no date, AK 1370. * Waikouaiti, Otago, D. Petrie, no date, AK 1371. * Deep Stream, Waikouaiti, Otago, D. Petrie, no date, AK 1372.

Triodia australis Petrie var. **mucronulata** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 896 (1906)

TYPE LOCALITY. "Swamps in the Tasman Valley, Canterbury, T. F. Cheeseman, 2,000-5,000 ft [610-1524 m]."

Specimen. Swamps in Tasman Valley, T. F. Cheeseman, January 1898, AK 1731.

Triodia macquariensis Cheeseman, *Vasc. Fl. Macquarie Is.*: 34 (1919)

TYPE LOCALITY. "Macquarie Island: Rock and cliffs near the coast. H. Hamilton (1912-1913)."

Specimens. Coastal form only found near the sea, Macquarie Island, H. Hamilton, no date, AK 1732. A common coastal grass, in crevices on bare rocks and cliffs, North end, Macquarie Island, H. Hamilton, no date, AK 1733.

Trisetum antarcticum Trin. var. **lasiorhachis** Hack. ex Cheeseman, *Man. N.Z. Fl.*: 880 (1906)

TYPE LOCALITY. Not stated by Cheeseman. Variety named by Hackel from specimen numbers 1213, 1217 and 1218 sent by Cheeseman.

Specimens. * Mount Hikurangi, East Cape, D. Petrie, no date, AK 1574 (no. 1217 to Hackel). * Mount Hikurangi, East Cape, 5,000 ft [1524 m], D. Petrie, no date, AK 1573 (2 sheets — no. 1218 to Hackel).

Trisetum cheesemanii Hack., *Trans. N.Z. Inst.* 35: 880 (1906)

TYPE LOCALITY. "Hooker Glacier, Mount Cook district, altit. 1200 m, leg. Cheeseman (Nro. 1221 sub nomine *T. subspicati*)."

Specimens. Hooker Glacier, Mount Cook, alt. 4,000 ft [1219 m], T. F. Cheeseman, no date, AK 1594 (3 sheets — no. 1221 to Hackel).

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